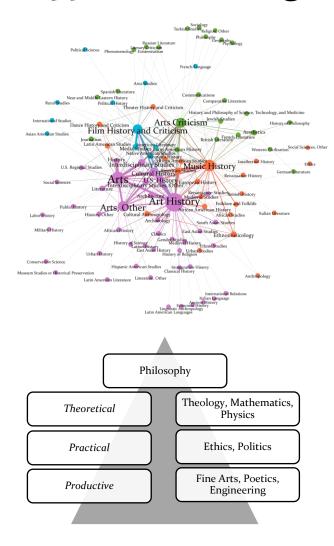
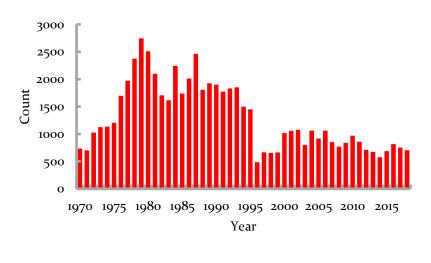
VPA 5300: The Digital Humanities in the Arts



Week 2 – 02 Tutorial: Scraping & APIs



Digital Reception (Auto) Biographies

Project Pipeline

- 1) Select (shared) media platform.
- 2) Download/extract data from platform.
- Explore data set.
- 4) Pose research question(s).
- 5) Scrape/query data OR annotate.
- 6) Analyze data.
- 7) Create presentation.

Digital Media Platforms

Streaming Services

Video

- Netflix
- Hulu
- HBO Max
- Amazon Prime

Audio

- Spotify
- Pandora
- Apple Music
- YouTube Music

Social Networking Services

- Facebook
- Twitter
- Instagram
- Pinterest

Media Players

iTunes

Example – Gender Bias on Netflix

Problems

- ~30% of lead actors in the sample were women.
- ~20% of writers in the sample were women.
- \sim 7% of directors in the sample were women.

- Geena Davis Institute on Gender in Media

Research Question

Do my viewing habits on Netflix reflect these inequities?

https://seejane.org/research-informs-empowers/

Data sets

Netflix

- Viewing History
 - Title
 - Viewing Date



Open Movie Database (OMDb)

- Title information
 - Directors
 - Writers
 - Actors

The state of the s

World Gender Name Dictionary

- List of Names
 - Gender
 - Country



Web Scraping

the extraction of data from a website.

Internet Movie Database (IMDb)

- Scrape data pertaining to the names of the cast, directors, and writers for each title in my Netflix Viewing History.
- tutorial_scraping.m

https://www.imdb.com/title/tto796366/?ref =fn al tt 2

Web Scraping

Ethics

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https://www.imdb.com/conditions

Application Programming Interfaces (APIs)

 a set of commands that can be used to retrieve the data stored in a company's database(s).

The Open Movie Database (OMDb) API

- Query data pertaining to the names of the cast, directors, and writers for each title in my Netflix Viewing History.
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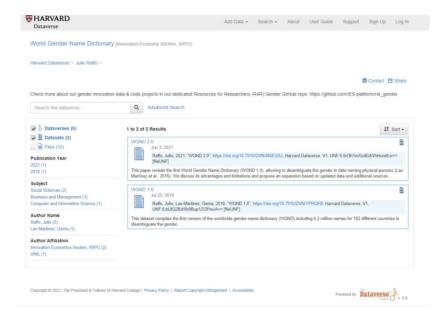


https://www.omdbapi.com/

Gender Identification

World Gender Name Dictionary (WGND)

- Match first names of lead actors, writers, and directors to gender identification database.
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https://dataverse.harvard.edu/dataverse/WGND

Findings

Actors

• 40% of lead actors in the sample were women (30%).

Writers

• 29% of lead writers in the sample were women (20%).

Directors

• 21% of lead directors in the sample were women (7%).

Other Questions

- How does genre interact with gender representation?
- How does the presence of multiple spoken languages in a film interact with gender representation?

Next Class (Tuesday, 9/7)

Empiricism and Epistemology

Homework:

• READING: Huron, "The New Empiricism..." (37 pages)

Advice: Read it in two sittings.